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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/389,393	09/03/1999	HISASHI OHTANI	07977/204002	5375
26171 7	7590 11/17/2004		EXAMINER	
FISH & RICHARDSON P.C.			BAUMEISTER, BRADLEY W	
1425 K STREET, N.W. 11TH FLOOR			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005-3500			2815	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/389,393	OHTANI, HISASHI			
		Examiner	Art Unit			
		B. William Baumeister	2815			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	1)⊠ Responsive to communication(s) filed on <u>20 September 2004</u> .					
2a)⊠	This action is FINAL . 2b) This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	4) Claim(s) 1.44-48 and 55-84 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.44-48 and 55-84 is/are rejected. 7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>20 September 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	are: a) accepted or b) object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority :	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmer	• •	4) 🔲 Interview Summary	(PTO 413)			
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail D				

DETAILED ACTION

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Drawings

- 1. The drawings were received on 9/20/2003. These drawings are not approved.
- 2. Applicant proposed to amend the specification to clarify that newly submitted FIG 5 depicts a bottom-gate TFT embodiment. Newly presented FIG 5 sets forth new matter because the specification as originally filed did not disclose for a bottom-gate TFT:
 - a. Source/drain regions being laterally spaced from the first metal extending region (or restated, providing the semiconductor region with a pair of regions having second portions that are not overlapped by the first conductive layer); or
 - b. the semiconductor region being formed over the gate and interposed insulating layer so as to be planar.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified

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and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- The claims are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with 4. the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
 - a. Regarding claims 1 and 44-48 (and those claims depending therefrom), the specification as originally filed did not disclose for a bottom-gate type TFT that extending portions of the first conductive layer overlap the first portions of said pair of regions while the second portions are not overlapped by said first conductive layer.
 - b. Regarding claims 45-48 (and those claims depending therefrom), the specification as originally filed did not disclose for a bottom-gate type TFT that a distance between the first portion and the source or drain region is either larger than, equal to or less than a thickness of the second conductive layer.

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c. Regarding claims 67-72, the specification as originally filed did not disclose an SiOx insulating layer interposed between the upper gate metal and the bottom of the semiconductor region in a bottom-gate type TFT.

Response to Arguments

- 5. Applicant's arguments filed 9/20/04 have been fully considered but they are not persuasive.
 - a. Applicant has referenced the features of other drawings setting forth top-gate embodiments, but has not pointed to any portion of the specification that supports the depiction or claiming of the noted features in bottom-gate embodiment.
 - b. Further regarding the drawings, applicant first asserts that FIG 5 is intended to be schematic, but then conversely asserts, "it is apparent from FIG. 5 and from Applicant's specification that the overlying thin film may be planar." Restated, applicant asserts that proposed FIG 5 is, in fact, intend to teach a semiconductor film/region that is planar. Also, please note that any potential showing that a feature is obviousness does not overcome new-matter objections/rejections.

Conclusion

6. This is a RCE of applicant's earlier Application No. 09/389,393. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in

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this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. William Baumeister whose telephone number is (571) 272-1722. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BRADLEY BAUMEISTER
PRIMARY EXAMINER

B. William Baumeister Primary Examiner Art Unit 2815

November 10, 2004